

216. *Walls of brick or stone buildings.* The walls of all brick or stone buildings over five stories high shall be thirteen inches thick for the top story and increasing four inches in thickness for each story below to the ground; the increased thickness of each story to be utilized for beam and girder ledges. All top story walls must extend through and eighteen inches above the roof in parapets not less than thirteen inches thick and coped with terra cotta, stone, cast-iron or cement. The roof of all buildings named in this section shall be of metal, slate or tile or gravel or other standard fire-proof roofing.

Buildings over five stories high.

Top story walls.

Roofs.

217. *Foundations.* In all buildings mentioned in the preceding section there shall be prepared a proper and substantial foundation, and no foundation shall be less than one foot below the exposed surface of the ground, and no foundation shall rest on any filling or made ground, and the breadth of the foundation of the several parts of any building shall be proportioned so that as near as practicable the pressure shall be equal on each square foot of the foundation, and cement mortar shall be used in the masonry of all foundations exposed to dampness.

Foundations.

Mortar.

218. *Doorways through party walls.* No opening or doorway shall be cut through a party or fire wall of a brick or stone building without a permit from the inspector, and every such door or opening shall have top, bottom and sides of stone, brick or iron, shall be closed by two sets of standard metal-covered doors (separated by the thickness of the wall) hung to rabbeted iron frames or to iron hinges in brick or stone rabbets, shall not exceed ten feet in height by eight feet in width, and every opening other than a doorway shall be protected in a manner satisfactory to the inspector.

Doorways through party walls.

Other openings.

219. *Standpipe and hose couplings required.* All business buildings being more than fifty-six feet high, covering an area of more than five thousand superficial feet, also all buildings exceeding eighty feet in height, shall have a four-inch or larger metallic standpipe within or near the front wall extending above the roof and arranged so that engine hose can be attached from the street, such riser to have two and one-half-inch hose coupling on each floor. All hose coupling shall conform to the size and pattern adopted by the fire department.

Stand pipes and hose coupling.

Hose coupling.

220. *Joists and beams entering brick walls.* The ends of joists or beams entering a brick wall shall be cut not less than three-inch bevel so as not to disturb the brick work by any deflection or breaking of the joists or beams. All such joists or timbers entering a party or division wall from opposite sides shall have at least four inches of solid brick work between the ends of such timbers or joists.

Joists and beams entering walls.

221. *Fireplaces and chimneys.* All fireplaces and chimneys in stone or brick walls in any building hereafter erected and any chimneys or flues hereafter altered or repaired shall have the

Fireplaces and chimneys.